

# Windows Server - network services

Course code: GOC219

Five-days instructor-led training course teaches detailed deployment and administration of networking services such as DNS servers and their farms and cooperation, DHCP servers and their high availability, routing and remote access, VPN technologies such as PPTP, SSTP or IKEv2 and IPsec, and also authentication and authorization to VPN and WiFi and 802.1x based on RADIUS implementation in NPS.

## Prerequisites

Knowledge in extent of the courses which are listed in the bellow sections **Previous Courses** and **Related Courses**

Good understanding of TCP/IP and DNS technologies

## Course outline

Static IPv4 and IPv6 addressing

NIC teaming

Basic of Windows Firewall

Blocking obsolete NetBIOS and LLMNR name resolutions with Windows Firewall

DNS servers

DNS zones, replication and their protection

DNS integration with Active Directory

Complex DNS scenarios, forwarding and other mechanisms

Load balancing DNS queries

Scripting, automation and central management for DNS servers

Record signing with DNSSEC

Controlling access to DNS services with Windows Firewall

DHCP servers and their authorization

DHCP assignment of IPv4 and IPv6 address parameters

High availability for DHCP servers and their replication

Controlling access to DHCP services with Windows Firewall

Managing IP addresses with IPAM

Routing and remote access

Implementing NAT on IPv4

DHCP relay agent

VPN technologies such as PPTP, SSTP, IKEv2, IPsec, AlwaysOn VPN, DirectAccess

Authenticating remote access users with RADIUS NPS server

Authentication such as PAP, SPAP, CHAP, MS-CHAP, MS-CHAPv2, EAP, EAP-TLS, PEAP

Reverse HTTP/HTTPS proxy WAP (Web Application Proxy)

Transport mode IPsec and tunnel IPsec with Windows Firewall

## Preparation for Microsoft certification

Most Microsoft certification exams do not require students to attend an official MOC course in order to pass the exam.

This applies to all certifications except for MCM

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Official Microsoft MOC courses as well as our own GOC courses are good ways of preparation for Microsoft certifications such as MCP, MTA, MCSA, MCSE or MCM

This does not mean that official MOC courses would serve as the only necessary preparation. The primary goal of an MOC course is to provide for sufficient theoretical knowledge and practical experience to effectively work with the related product

MOC courses usually cover most of the topics required by their respective certification exams, but often do not give every topic the same amount of time and emphasis as may be required to completely pass the exam

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